

13 MICROCRYSTAL TESTS	Page 1 of 2
Division of Forensic Science CONTROLLED SUBSTANCES TRAINING MANUAL	Amendment Designator:
	Effective Date: 8-December-2003
<p style="text-align: center;">13 MICROCRYSTAL TESTS</p> <p>13.1 Objectives</p> <p>13.1.1 To familiarize the trainee with microcrystal tests for drugs.</p> <p>13.1.2 To make the analyst proficient in the use of microcrystal tests for the identification of dextromethorphan.</p> <p>13.2 Modes of Instruction</p> <p>13.2.1 Self-directed study through reading assignments</p> <p>13.2.2 Presentations and demonstrations</p> <p>13.2.3 Practical exercise</p> <p>13.3 Reference</p> <p>13.3.1 Clarke, E. G. C. <i>Isolation and Identification of Drugs, Volumes 1 and 2</i>. London: The Pharmaceutical Press, 1978, pp. 135-141.</p> <p>13.3.2 Fulton, Charles C. <i>Modern Microcrystal Tests for Drugs</i>. New York: Wiley Interscience, 1969.</p> <p>13.3.3 <i>Basic Training Program for Forensic Chemists</i>, U.S. Department of Justice, Drug Enforcement Administration, Office of Science and Technology, pp. 4-13 through 4-20.</p> <p>13.3.4 DFS Controlled Substances Procedures Manual, Narcotics Section.</p> <p>13.3.5 Siegel, Jay A., Ph.D. "Forensic Identification of Controlled Substances", in Saferstein, Richard, Ph.D., editor. <i>Forensic Science Handbook, Volume II</i>. Englewood Cliffs, N. J.: Prentice Hall, pp. 68-160.</p> <p>13.4 Assignments</p> <p>13.4.1 Completion of required reading assignments (13.3.1 and 13.3.4)</p> <p>13.4.2 Study questions and practical exercise</p> <p>13.5 Study questions</p> <p>13.5.1 Describe the three types of microcrystal tests which may be used.</p> <p>13.5.2 What are some of the advantages and disadvantages of microcrystal tests?</p> <p>13.5.3 How can microcrystal tests be utilized to differentiate stereoisomers?</p> <p>13.5.4 How would you document the results of microcrystal tests in your case notes?</p> <p>13.6 Practical Exercise</p> <p>13.6.1 Perform microcrystal tests for the following drugs:</p> <p style="padding-left: 40px;">13.6.1.1 Cocaine HCl</p> <p style="padding-left: 40px;">13.6.1.2 Dextromethorphan</p>	

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<div>13.7 Modes of Evaluation</div> <div>13.7.1 Written examination</div> <div>◆ End</div>	